

Amendments to the Claims:

Please amend claim 62 and cancel claims 60 and 64-70 as shown in the following listing of claims. This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-60 (cancelled)

61. (previously presented) An integrated circuit communication device configured for operation over a multi-pair transmission channel, the communication device comprising:

a decision feedback sequence estimation (DFSE) circuit, for decoding an input sample into a final decision corresponding to a codeword of a trellis code having N states, the DFSE including a single state decision feedback equalizer, the single state decision feedback equalizer having a set of ordered coefficients, the decision feedback equalizer defining a coefficient related tail value and a low order subset of coefficient values.

62. (currently amended) The integrated circuit communication device according to claim ~~60~~ 61, wherein the single state decision feedback equalizer has a width dimension D, ~~wherein the single state decision feedback equalizer has a width dimension D~~, wherein the width dimension D corresponds to the number of pairs defining the multi-pair transmission channel.

63. (original) The integrated circuit communication device according to claim 62, further comprising a state multiplication circuit, the state multiplication circuit expanding a single state representation output signal received from the single state decision feedback equalizer into an N state representation signal suitable for decoding by the DFSE.

Claims 64-159 (cancelled)